INDEX.

Circular to Gas Companies.

Accounts and Half Yearly Meetings of the Metropolitan Gas Companies, 529
Accounts of the London Gas Companies for 1875, Mr. Field's Analysis of, 806, 854
Alliance and Dublin Gas Company, Report of the, 454
Alliance and Dublin Gas Company *v.* Taafe, 191
Amalgamation, Arguments against, 45
Amalgamation, Opposition of the Metropolitan Board to, 721
Amalgamation Scheme, Confirmation of the, 454
Amalgamation Scheme, Progress of the, 413
Amalgamation Scheme, Provisional Approval of, 378
Aston, Gas Affairs at, 190
Auction Clauses for Metropolitan Gas Companies, 153
Auction Clauses, Mr. G. W. Stevenson on the Proposed, 229
Auction Clauses, Proposed, 190
Average Meter System and the Chelsea Vestry, 758
Average Meter System in Paddington, 270
Average Meter System in St. George's, Hanover Square, Proposed Adoption of, 82, 414
Average Meter System in the Metropolis, 378
Average Meter System in St. Pancras, 82
Barnet District Gas and Water Company, Meeting of the, 306
Barnstaple, The Town Council and the Gas Company, 934
Batley, The Question of Differential Rates at, 894
Beck, Mr. S. A., Retirement of, 529
Beckton Gasholders, The "Woolwich Monster" and the, 808
Beverley, Gas Affairs at, 231
Birmingham and Staffordshire Gas Company—Completion of Purchase of, by the Corporation, 10
Winding Up of, 118
Birmingham, Gas Affairs at, 894
Birmingham, Gas Complaints at, 854
Birmingham, Gas Profits of the Corporation of, 415
Birmingham Gas-Works, Proposed Extension of the, 82
Birmingham Out Districts and their Gas Supply, 415
Board of Trade Bribe and Threatened Centralization, 681, 721
Board of Trade Correspondence with the late Referees, 974
Board of Trade, The, and the Metropolis Gas Question, 45
Bolton, Gas Affairs at, 974
Borough Funds Act, Amended Bill, 414
Borough Funds Act; Municipal Corporations Association and the, 341
Borough Funds Act, Proposed Repeal of the, 378
Bradford, Gas Affairs at, 82
Brechin Gas Company, 893
Bridgenorth, A Hint from; How to Save Money, 82
Brighton Gas Company, Meeting of the, 306
British Association of Gas Managers, Meeting of the, 854, 934, 974
Burghs and Populous Places (Scotland) Gas Supply Bill, 230, 342, 414, 454, 530, 682, 853, 894
Burslem Gas-Works, Transfer of the, 119, 190
Bury, Gas Affairs at, 82
Camberwell Vestry and the South Metropolitan Gas Bill, 645
Cambridge Gas Works, Alleged Nuisance at, 934
Camperdown, Earl, on the Chartered Gas Bill, 973
Can Commercial Principles be Applied to Statutory Gas Underterkings? 377
Chairmanship of the City Gas and Water Committee, The, 154
Chartered Gas Company, Amended Bill of the, and the Regulations Bill, 413
Chartered Gas Company, Bill of the, 81, 454, 805
Chartered Gas Company, Conversion of Shares into Stock, 231
Chartered Gas Company—Scheme for Amalgamation of Imperial and Independent Companies, 306
Chelsea, Vestry of, and the Average Meter System, 758
Chester, Reduction in the Price of Gas at, 231
Chief Gas Examiner, The New, 530
Chubb, Mr. H., on "The Supply of Gas to the Metropolis," 605, 645
Committee Business in the Commons, 378
Conference, A, at the Board of Trade, 45, 81
Conversion of Chartered Gas Companies Shares into Stock, 231
Corporate Gas Undertakings, Scottish Management of, 230
Corporation Gas and Water Bills, 154
Corporation of Winchester and the Gas and Water Company, 682
Correspondence of the Board of Trade and the late Referees, 974
Count Out, A, on the Metropolis Gas Bill, 453
Crookes, Mr., on Photometry, 646
Deputation to the Chancellor of the Exchequer, 153
Dover, Complaints at, 682
Dublin; Alliance and, Gas Company, Meeting of the, 454, 530, 570
Dublin; Alliance and, Gas Company *v.* Taafe, 191
Dublin, Gas Affairs at, 306
Dublin, Test Burner Question in, 342
Dundee Gas Commissioners and the Future Illuminating Power of their Gas, 190
Dunlop, Mr., Address by, 722
Electric Light Again, The, 606
Ely, Gas Affairs at, 190
Eupion Gas Trial, The, 270
Exeter Gas Company and the Town Council, 570
Exeter Gas Works, Alleged Nuisance at the, 606, 646, 682
Field's, Mr., Analysis of the London Gas Companies Accounts for 1875, 806, 854
Fraser's Magazine on Metropolitan Gas Affairs, 893
Gas from Liquid Sewage, A Scheme for Making, 46
Gaslight and Coke Company, Bill of the, 81
Gaslight and Coke Company, Scheme for Amalgamation of Imperial and Independent Companies, 306
Gaslight and Coke Company, Second Reading of Bill in the House of Lords, 973
Gas Managers Benevolent Fund, 682, 722
Gas Referees, Summer Instructions of the, 494
Gas Supply of London, Dr. Letheby's Quarterly Report on the, 82
Gas where not Wanted, 646
Glasgow Critic, A, upon Gas, 454
Glasgow Gas, Quality of, 570
Graham, D. A., on "The Principle of the Valuation of Gas Coals and Cannels," 454
Half Yearly Accounts of South London Companies, 454
Halifax Corporation, The, and their Gas Undertaking, 231
Hanley Gas Works, Proposed Purchase of, 306
Harcourt, Mr. Vernon, on the Estimation of Illuminating Power and Quality of Coal Gas, 606
"Hartley Mineral," 415
Horncastle Gas Company, Sale of the, 934
How shall New Capital be Raised? 153
Illuminating Power and Purity of Coal Gas, Mr. Vernon Harcourt on the Estimation of, 606
Imperial Gas Company and Average Meter System in Paddington, 270
Imperial Gas Company, Bill of the, 81
Imperial Gas Company, Meeting of the, 305
Imperial Gas Company, Scheme for Amalgamation of the, with the Chartered Gas Company, 306
Increase in the Salary of the Secretary of the Chartered Gas Company, 806
Independent Gas Company, Last Meeting of, 605
Independent Gas Company—Scheme for Amalgamation of, with Imperial and Chartered Companies, 306
Ipswich, Gas Affairs at, 342, 530
Ipswich Gas Company, Meeting of the, 306
Ipswich Gas Works, Proposed Purchase of the, 190
Ipswich Gas Works, Report of Mr. G. W. Stevenson on, 270
Lambeth Vestry, The, and Metropolitan Gas Affairs, 154
Leeds, Another Mare's Nest at, 154
Leeds Corporation Gas Undertaking, 758
Leeds, Gas Affairs at, 10
Leeds, Reduction of Price and Alteration of Discounts at, 934
Letheby, Dr. H., Death of, 494
Letheby's, Dr., Quarterly Report on the Gas Supply of London, 82
Lichfield, Gas Affairs at, 10
Lichfield Gas Works, Proposed Purchase of the, 342, 414, 530, 682
Liverpool, Gas Agitation in, 118, 378, 494
Liverpool Gas Company and the Corporation, 230
Liverpool Gas Company's Accounts, Audit of the, 570
Livesey, Mr. G., A Letter by, 9, 46
Livesey, Mr. G., On the Sulphur Question, 190
Llandudno Gas and Water Company, Sale of the, 722
Lowe, Mr. R., On the Quality and Price of London Gas, 934
M'Crae's, Mr., Lecture at Dundee, 118
Maidstone Gas, Quality of, 570
Maryport Gas Works, Proposed Purchase of, 270
Metropolis Gas Affairs, 153, 305, 341, 605, 757
Metropolis Gas Question, A Shareholder and Ratepayer on the, 45
Metropolis Gas Question, Board of Trade and the, 45
Metropolis Gas Question, Probable Settlement of the, 681
Metropolis Gas Question—Probable Designs of the Board of Trade, 893
Metropolis Gas (Regulations) Bill, A Count Out on the, 453
Metropolis Gas (Regulations) Bill, Opposition to the, 377, 378
Metropolis Gas (Regulations) Bill, Possible Fate of the, 645
Metropolis Gas (Regulations) Bill, Reintroduction of the, 229
Metropolis Gas (Regulations) Bill, Second Reading of the, 721
Metropolis Gas (Regulations) Bill, Suggested Withdrawal of the, 93
Metropolis Gas (Surrey Side) Bill, 933, 973
Metropolitan Board and the Regulations Bill, 454, 569
Metropolitan Board, Opposition of the, to Amalgamation, 721
Metropolitan Board, Report of the, for 1875, 934
Metropolitan Gas Affairs, *Fraser's Magazine* on, 893
Metropolitan Gas Companies; Accounts and Half Yearly Meetings of, 529
Metropolitan Gas Companies, Reports of the, 494
Metropolitan Gas Legislation, 805, 893
Metropolitan Gas Legislation from 1860 to 1869, 377
Metropolitan Gas Matters, Prospective Legislation on, 9, 269
Metropolitan Imbroglio, The, 117
Municipal Government of London, 933
Mysteries of Consumers Gas Bills, &c., 645, 682
New Capital Question, The, 189
New Gas Company, The, 646
Newton, Mr. W., Death of, 378
Observations out of Date, 681
Opposition to the Regulations Bill, 377
Parliamentary Compact, The, 377
Patterson, Mr., on "Gas Lighting," 415
Patterson *v.* The Gaslight and Coke Company, 190, 230, 494, 758
Perth, Gas Affairs at, 974
Photometers, New, 154
Photometry, Mr. Crookes on, 646
Plymouth, Reduction in Price of Gas at, 646
Poole, Gas Affairs at, 231
Popular Demonstrations by Gas Managers, 46
Possibility of a South London Amalgamation, 721
Possible Future Price of Coal and the Sliding Scale, 45
Postponement of the Second Reading of the Regulations Bill, 378
Primâ Facie Evidence of Consumption of Gas by Meters, 46
Principle, The, of the Valuation of Gas Coals and Cannels, by Mr. D. A. Graham, 454
Provincial Gas Bills, 117
Provisional Approval of the Amalgamation Scheme, 378
Ramsgate, Gas Affairs at, 190, 230
Ramsgate Local Board, Defeat of the, 414
Rating of the Southampton Gas Company, 82
Reduction of Price and Alteration of Discounts at Leeds, 934
Reduction of Price at Chester, 231
Reduction of Price at Nottingham, 934
Reduction of Price at Plymouth, 646
Referees and Patentees, 853
Reintroduction of the Regulations Bill, 229
"Remarks on Coal and other Matters," by Mr. Lewis Thompson, 454
Report of the Metropolitan Board for 1875, 934
Reports of the Metropolitan Gas Companies, 493
Retirement of Mr. S. A. Beck, 52.
Rochdale Corporation Gas Accounts, .5?
Rotherham, Gas Affairs at, 378
Runcorn Gas Works, Proposed Purchase of the, 270
St. George's in the East, Complaints in, 682
St. Helen's Gas Works, Sale of the, to the Corporation, 46
Sale of Coal, &c., Bill, 682
Scottish Management of Corporate Gas Undertakings, 230
Sevenoaks, Gas Affairs at, 154, 190, 230
Sevenoaks, Result of the Poll at, 306
Sheffield United Gas Company, Report of the, 606
Silverthorne, Mr., on the Transfer of Gas Works to Local Authorities, 118, 154
Southampton, Gas Affairs at, 230
Southampton Gas Bill, 722, 894
Southampton Gas Company and the Guardians, 118
Southampton Gas Company, Rating of the, 82
Southampton, Ratepayers Meeting at, 341
Southampton Town Council and the Gas Company, 414
South London Companies, The Half Yearly Accounts of, 454
South Metropolitan Gas Bill, 82, 721, 805, 853
South Metropolitan Gas Bill, The Camberwell Vestry and the, 645
South Metropolitan Gas Company and the Metropolitan Board, 681
Stevenson, Mr. G. W., on the Proposed Auction Clauses, 229
Sugg *v.* Silber, 758, 974

Sulphur Question, Mr. G. Livesey on the, 190
Summer Instructions of the Gas Referees, 494
Supply of Gas to the Metropolis, Mr. H. Chubb on the, 605, 645
Thompson, Mr. Lewis, and the Chief Gas Examinership, 758
Thompson's, Mr. Lewis, "Remarks on Coal and other Matters," 454
Transfer of Gas Works to Local Authorities, Mr. Silverthorne on the, 118, 154
Treatise on the Manufacture, &c., of Gas, Republication of the, 378
Turney's, Mr., Gas Bills, 682
Warrington Gas Works, Proposed Purchase of the, 231, 415
West of Scotland Gas Managers Association, Report of the, for 1875-76, 270
What have the Government Promised? 153
Wigan, Gas Affairs at, 342
Winchester, The Corporation of, and the Gas and Water Company, 682
"Woolwich Monster," The, and the Beckton Gasholders, 806

Water and Sanitary Notes.

Accounts of the London Water Companies, 119
Artizans Dwellings Act, Application of the, in the City of London, 191
Artizans Dwellings Act in the Metropolis, 606
Beckett's, Sir E., Letter on London Water Supply, 82
Birmingham Water Works Company, The last of the, 607
Borough Funds Act, Proposed Amendment of the, 570
Borough Funds Act, The, 119
Buchanan, Dr., at Croydon, 10
Camperdown, Earl, on the London Water Supply, 10
Carter, Alderman, and the New River Company, 683
Chadwick, Mr. Edwin, C.B., and the Metropolitan Water Companies, 415
City Commission of Sewers, The New Chairman of the, 191
Cole, Sir Henry, C.B., on the Stump, 530
Conference on the Health and Sewage of Towns, 683, 722, 759
Cox's, Col., Report on the Drainage of the Thames Valley, 571
Denton, Mr. Bailey, at Rotherham, 47
Deputation on the Metropolis Water Supply, 494
Drainage of the Thames Valley, Col. Cox's Report on the, 571
East London Water Company, The Accounts of the, 455
Foundations of Dwelling Houses, 155
Frankland, Dr., on Water Analyses, 342
Fraser, Sir W., on the Local Government of London, 270
Halifax Corporation and Neighbouring Local Boards, 271
Halifax Corporation and their Water Undertaking, 806
Halifax Town Council and the Removal of House Refuse, 119
Hastings, Water Affairs at, 379
Haywood's, Major, Report on the Liernur System, 191
Health and Sewage of Towns, Conference on the, 683, 722, 759
House of Commons, The, and the Metropolitan Fire Brigade, 455
Hydrants, The Question of, 119
Kent Water Company's Supply, 231
Kent Water Company, The, and the Metropolitan Board, 119
Leicester Corporation, Defeat of Water Works Purchase Scheme, 415
Leicester Water Company and the Corporation, 307
Liernur System, Major Haywood's Report on the, 191
Liverpool and the Windermere Lake Scheme, 683, 722
Liverpool Corporation and Plumbers Work, 231
Liverpool Corporation, Water Accounts of the, 855
Liverpool, Future Water Supply of, 570, 854
Liverpool, Water Affairs at, 47, 119, 191, 378
Liverpool Water Committee, Report of the, 607
Local Government of London, Sir W. Fraser on the, 270
Loch Katrine Water, Quality of, 855
London Water Companies and the Local Authorities, 191, 306
London Water Companies, Proposal of the Metropolitan Board to Purchase the, 270
London Water Companies, The Accounts of the, 119, 231
London Water Supply, Deputation on the, 494
London Water Supply, Dr. Sandwith on the, 10
London Water Supply, Earl Camperdown on the, 10
London Water Supply, Sir E. Beckett's Letter on the, 82
Metropolitan Board of Works and the Kent Water Company, 119
Metropolitan Board of Works and the Water Companies, 306
Metropolitan Fire Brigade, The House of Commons and the, 455
Newcastle and Gateshead Water Works, Proposed Sale of, 342
New Red Sandstone, Source of Water in the, 806
Noxious Vapours, Royal Commission on, 494
Plague, The Coming, 82
Pollution of Rivers Bill, 894, 935, 975
Pollution of the Ravensbourne by Foul Gas Lime, 155
Proposed Conference on Metropolis Water Affairs at Guildhall, 83
Provincial Water Companies and Corporations, 342
Ravensbourne, Pollution of the, by Foul Gas Lime, 155
Registrar-General's Annual Summary, 530
Richmond Vestry and their Sewage Scheme, 806
Rochdale Corporation, Accounts of Sanitary Manure Department, 759
Rochdale Corporation Water Accounts, 759
Rochdale, Sanitary Matters at, 47
Royal Commission on Noxious Vapours, 494
Sandwith, Dr., on "The London Water Supply," 10, 155
Scarcity of Water in the North of England, 231
Sewage Farms and Royal Residences, 607
Sewer Gas, The Influence of, in Dissemination of Zymotic Disease, Professor Tyndall on, 119
Sheffield Water Works Company, 571
Source of Water in the New Red Sandstone, 806
Southwark and Vauxhall Water Company and Richmond Vestry, 415, 606
Southwark and Vauxhall Water Company, Opposition to the Bill of the, 342
Southwark and Vauxhall Water Company, Withdrawal of Bill, 378
Stockton and Middlesbrough Water Bills, 683, 723, 759, 854, 975
Thames Conservancy Board, Threatened Proceedings by the, 722
Tyndall, Professor, on the Influence of Sewer Gas in Dissemination of Zymotic Disease, 119
Urine, Conservation of, 47
Wakefield, Water Affairs at, 379
Wakefield Water Bill, Further Opposition to the, 855
Wakefield Water Company and the Corporation, 935
Water Agitation in the Metropolis, 155
Water Analyses, Dr. Frankland on, 342
West Derby, Local Board of, and their Sewage Farm, 894
Wieland's, Major, Explanation, 723
Worcester Corporation Water Works, Rating of, 231
York Water Company and the Town Council, 47
Zymotic Disease; Influence of Sewer Gas in Dissemination of—Professor Tyndall on, 119

Leading Articles.

Burghs and Populous Places (Scotland) Gas Supply Bill, 685
Compulsory Purchase of Statutory Water Works Undertakings, 807, 856
Gas Bills for the Session of 1876, 119, 155
Metropolitan Water Companies Accounts for the Year 1874-5, 243
New Tool, A, 807
Provisional Orders Applied for (Session 1876), 232
Storeage of Petroleum, The, 11
Water Bills for the Session of 1876, 156, 191, 231

A Treatise on the Science and Practice of the Manufacture and Distribution of Coal Gas.

(Continued from previous Volumes.)

Gasholders, 11
Governors, 47, 83, 120
Pressure Registers, 121
Exhaust Registers, 157
Chimney Shafts or Stacks, 193, 233, 271
Sites and Buildings for Gas Works, 307, 343
Considerations affecting the Establishment of Gas Works, 379, 415, 455, 495, 571
Designs for Small Works, 495, 608, 647
Board of Trade Plan of Gas Works, 683
Portslade Gas Works, 723
Beckton Gas Works, 855, 894

Supplementary Chapters on Retort Settings, 48, 280

Communicated Articles.

City of London Gas Company, The Late, 272
Metropolis Gas Supply, 49
Prospective Metropolitan Gas Legislation, 273

Correspondence.

Amalgamation of the Chartered, Imperial, and Independent Gas Companies, The Proposed—A Proprietor for Many Years, 123
Appointment and Remuneration of Gas Companies Secretaries—
A Clerk, 345
I. N. K., 194, 236
Query, 308
Asphalt for Paving—Asphalt, 52
Burghs (Scotland) Gas Supply Bill—Livesey, Wm., 857
Burner Testings—
Bray and Co., George, 15
Greene and Son, Henry, 194, 275
M'Crae, B. M., 235
R. W., 344
Sugg, William, 194
W. L., 235
Chimney Shafts or Stacks—
C. W., 308
Methven, John, 274
Peebles, D. Bruce, 344
Stansfield, Wm., 308
W. B., 308
Cost of Obtaining Act or Provisional Order—A Country Manager, 275
Deposit of Carbon in Retorts—
Eldridge, James, 123
Good, R., 123
Tysoe, Joseph, 158
W. L. G., 158
District Governors—E. J. B., 382
Exeter Gas Works, Alleged Nuisance at the—
Stansfield, Wm., 686
Thompson, C. Halford, 759
Gas Accounts—A Secretary, 15
Gas Analysis—Micawber, jun., A., 896
Gas Burners—R. R., 382
Gas Exhausters—
Cleland, William, 123
Donaldson, Andrew, 158
Laughing Gas, 51
Gas Exhausters and the Deposit of Carbon in Retorts—
Anderson, George, 13
Dunlop, William, 85
Nemo, 85
Gas Managers Benevolent Fund—
Aleph, 649
An Irish Manager, 685
Warner, W. J., 685
Gas Manufacture in Scotland—A Contributor to the Benevolent Fund of the West of Scotland Association of Gas Managers, 51
Gas Purification—Mann, W., 935
Globular Street Lamps—Lyon, John H., 195
Governors to Meter Lamps—
Brett, R. W., 195
Hall, Thomas, D., 123, 275
Key, W., 15, 194, 381, 417
Wright, Frank, 51
Guarantee *versus* Deposit—Earle, Norwood, 124
Illegal Detention of Meters—Hamilton, 275
Is the Manufacture of Sulphate of Ammonia a Nuisance?—Tobey, Henry, 235
Lowe, Mr. Robert, and the Quality and Price of London Gas—An Ex-C. I., 935
Malam's Process of Gas Making—
Malam, A., 85
M'Gilchrist, James, 51, 124
Somerville, John, 760
Manufacture of Sulphate of Ammonia—A Learner, 308
Meter Fixing without Notice—
A Country Manager, 573
Ohren, Magnus, 610
Nictheroy Gas Company—Neate, Charles, 896
Our Christmas Appeal—Warner, W. J., 15
Photometry—
Hislop, George, R., 417
Richardson, William, 158
Sugg, William, 572
W. L., 417
Young, W. C., 382, 456
Rainfall Statistics—Anderson, George, 51
Rateable Division of Profits—Meter, 275
Referees and Patentees—
Harcourt, A. Vernon, 807, 896
Patterson, R. H., 807
Removal of Carbon from, and a Remedy Against the Deposit of Carbon in, Retorts—
Cliff, W. D., 85
C. T. S., 51, 195
Retort Furnace Bricks—A Country Manager, 381
Retort Settings—
Anderson, George, 416, 456
Hall, J., 381, 573
T. D. H., 807
W. M. A., 573, 726, 897
Rowbottom's Gas Stoking Machine—A London Man, 275
Sale of Shares by Auction—Stevenson, G. W., 235
Simultaneous Lighting of Public Lamps—Holmes, W. Cartwright, 760
Slough Sewage Scheme—A Member of the Governing Body of Eton School, 807
South Metropolitan Gas Company, The, and the Metropolitan Board of Works—An Ex-Secretary, 726
Station Governors—
B. T., 195, 308
Jarvis, W., 158, 275
Sulphur in Gas—Anderson, George, 235, 417
Sulphur in Paris Gas—Silverthorne, Arthur, 381
Sulphur Purification—Thompson, Lewis, 896
Transfer of Gas Works to Local Authorities—D. B. S., 275
Working Drawings of Retort Settings—
A Gas Manager, 15
Brown, J., 345

A Clerk—Appointment and Remuneration of Gas Companies Secretaries, 345
A Contributor to the Benevolent Fund of the West of Scotland Association of Gas Managers—Gas Manufacture in Scotland, 51

A Country Manager—
Cost of Obtaining Act or Provisional Order, 275
Meter Fixing without Notice, 573
Retort Furnace Bricks, 381
A Gas Manager—Working Drawings of Retort Settings, 15
A Learner—Manufacture of Sulphate of Ammonia, 308
Aleph—Gas Managers Benevolent Fund, 649
A London Man—Rowbottom's Gas Stoking Machine, 275
A Member of the Governing Body of Eton School—Slough Sewage Scheme, 807
Anderson, George—
Gas Exhausters and the Deposit of Carbon in Retorts, 13
Rainfall Statistics, 51
Retort Settings, 416, 456
Sulphur in Gas, 235, 417
An Ex C. I.—Mr. Robert Lowe and the Quality and Price of London Gas, 935
An Ex-Secretary—The South Metropolitan Gas Company and the Metropolitan Board of Works, 726
An Irish Manager—Gas Managers Benevolent Fund, 685
A Proprietor for Many Years—The Proposed Amalgamation of the Chartered, Imperial, and Independent Gas Companies, 123
A Secretary—Gas Accounts, 15
Asphalt—Asphalt for Paving, 52
Bray and Co., G.—Burner Testings, 15
Brett, R. W.—Governors to Meter Lamps, 195
Brown, J.—Working Drawings of Retort Settings, 345
B. T —Station Governors, 195, 308
Cleland, William—Gas Exhausters, 123
Cliff, W. D.—Removal of Carbon from, and a Remedy against the Deposit of Carbon in, Retorts, 85
C. T. S.—Removal of Carbon from, and a Remedy against the Deposit of Carbon in, Retorts, 51, 195
C. W.—Chimney Shafts or Stacks, 308
D. B. S.—Transfer of Gas Works to Local Authorities, 275
Donaldson, Andrew—Gas Exhausters, 158
Dunlop, William—Gas Exhausters and the Deposit of Carbon in Retorts, 85
Earle, Norwood—Guarantee *versus* Deposit, 124
E. J. B.—District Governors, 382
Eldridge, James—Deposit of Carbon in Retorts, 123
Good, D.—Deposit of Carbon in Retorts, 123
Greene and Son, Henry—Burner Testings, 194, 275
Hall, J., Retort Settings, 381, 573
Hall, Thomas D.—Governors to Meter Lamps, 123, 275
Hamilton—Illegal Detention of Meters, 275
Harcourt, A. Vernon—Referees and Patentees, 807, 896
Hislop, George R.—Photometry, 417
Holmes, W. Cartwright—Simultaneous Lighting of Public Lamps, 760
I. N. K.—Appointment and Remuneration of Gas Companies Secretaries, 194, 236
Jarvis, W.—Station Governors, 158, 275
Key, W.—Governors to Meter Lamps, 15, 194, 381, 417
Laughing Gas—Gas Exhausters, 51
Livesey, W.—Burghs (Scotland) Gas Supply Bill, 857
Lyon, John H.—Globular Street Lamps, 195
Malam, A.—Malam's Process of Gas Making, 85
Mann, W.—Gas Purification, 935
M'Crae, B. M.—Burner Testings, 235
Meter—Rateable Division of Profits, 275
Methven, John—Chimney Shafts or Stacks, 274
M'Gilchrist, James—Malam's Process of Gas Making, 51, 124
Micawber, jun., A.—Gas Analysis, 896
Neate, Charles—Nictheroy Gas Company, 896
Nemo—Gas Exhausters and the Deposit of Carbon in Retorts, 85
Ohren, Magnus—Meter Fixing without Notice, 610
Patterson, R. H.—Referees and Patentees, 857
Peebles, D. Bruce—Chimney Shafts or Stacks, 344
Query—Appointment and Remuneration of Gas Companies Secretaries, 308
Richardson, William—Photometry, 158
R. R.—Gas Burners, 382
R. W.—Burner Testings, 344
Silverthorne, Arthur—Sulphur in Paris Gas, 381
Somerville, John—Malam's Process of Gas Making, 760
Stansfield, Wm.—
Alleged Nuisance at the Exeter Gas Works, 686
Chimney Shafts or Stacks, 308
Stevenson, G. W.—Sale of Shares by Auction, 235
Sugg, William—
Burner Testings, 194
Photometry, 572
T. D. H.—Retort Settings, 807
Thompson, C. Halford—Alleged Nuisance at the Exeter Gas Works, 759
Thompson, Lewis—Sulphur Purification, 896
Tobey, Henry—Is the Manufacture of Sulphate of Ammonia a Nuisance? 235
Tysoe, Joseph—Deposit of Carbon in Retorts, 158
Warner, W. J.—
Gas Managers Benevolent Fund, 685
Our Christmas Appeal, 15
W. B —Chimney Shafts or Stacks, 308
W. L —
Burner Testings, 235
Photometry, 417
W. L. G —Deposit of Carbon in Retorts, 158
W. M. A.—Retort Settings, 573, 726, 897
Wright, Frank—Governors to Meter Lamps, 51
Young, W. C.—Photometry, 382, 456

Parliamentary Intelligence.

House of Lords—The Gaslight and Coke Company's Bill, 975
House of Lords Committee—Leigh and Hindley Local Boards Bill, 573
House of Commons—
Burghs and Populous Places (Scotland) Gas Supply Bill, 418
Burghs (Scotland) Gas Supply Bill, 761, 897
Metropolis Gas Companies Accounts, 727
Metropolis Gas Companies Bill, 457, 727
Metropolis Gas (Surrey Side) Bill, 978
Municipal Government of the Metropolis (Supply of Gas and Water), 936
Patterson's, Mr., Patent for Sulphur Purification, 808
Pollution of Rivers Bill, 897, 978
Sewage Purification and Rivers Pollution, 686
Thames Valley Drainage, 573, 649
Water Supply in Rural Districts, 978
House of Commons Committees—
Gorleston and Southtown Gas Bill, 496
Kildwick Parish Gas Bill, 858
Leicester Improvement Bill, 457
Ramsgate Local Board Bill, 419
Southampton Gaslight and Coke Company's Bill, 897
South Metropolitan Gaslight and Coke Company's Bill, 812
Stockton and Middlesbrough Water Bills, 574, 610, 650, 687, 728, 819, 860, 902, 937, 978
The Gaslight and Coke Company's Bill, 838
Walsall Gas Purchase and Borough Extension Bill, 464
Whitehaven Town and Harbour Improvement Bill, 690

Gas and Water Bills for 1876, 86, 124, 158, 186, 236
Progress of Bills in the House of Lords, 237, 276, 308, 346, 382, 418, 456, 496, 531, 649, 686, 727, 760, 808, 858, 935, 975
Progress of Bills in the House of Commons, 236, 276, 308, 346, 382, 418, 456, 496, 531, 573, 649, 686, 727, 760, 808, 858, 897, 936, 978

Legal Intelligence.

Aston Petty Sessions—Summons against the Birmingham Corporation for Dismissal of a Stoker, 161
Bath County Court—Smith *v.* Anderson, 940
Birmingham Police Court—A Drunken Lamplighter, 906
Bow County Court—Claim for Wages by a Man discharged for Drunkenness, 241
Cambridge County Court—Cambridge Water Company *v.* Fulcher, 161
Chesterfield Police Court—Conviction of a Lamplighter for Neglect of Work, 15
Clerkenwell Police Court—New River Company *v.* Mather, 91
Court of General Assessment Sessions, Westminster—Chelsea Water Company, *Appellants*, *v.* St. George's Union Assessment Committee, *Respondents*, 241
Croydon County Court—Crystal Palace District Gas Company *v.* Smith, 52, 278
Dewsbury County Court—Batley Corporation *v.* Stubley Brothers, 905
Dublin Consolidated Nisi Prius Court—Taafe, *Appellant*, *v.* Alliance and Dublin Consumers Gas Company, *Respondents*, 206
Dublin County Quarter Sessions—Disputed Gas Account, 52
Dublin Southern Divisional Police Court—Rating of the Corporation Water Mains, 383
Dudley Police Court—Summonses against a Water Company for Deficient Supply, 53
Edinburgh Court of Session—
Brönner *v.* M'Vean, 130
Wilson *v.* Young's Paraffin Oil Company, 52
Edinburgh Police Court—Conviction for Drunken Recklessness, 53
Exeter Petty Sessions—Alleged Nuisance at the Exeter Gas Works, 654
Glasgow Sheriffs Small Debt Court—Disputed Gas Account, 130
Greenwich Police Court—Conviction for Discharging Gas Refuse into a Sewer, 531
Guildhall Police Court—Using Impure Water, 694, 730
Hammersmith Police Court—
A Drunken Lamplighter, 906
A Drunken Stoker, 53
High Court of Justice—
Chancery Division—
Birmingham Corporation *v.* Allen and Holden, 730
Brönner *v.* Dixon, 383, 577
Brönner *v.* Ungar, 577
International Finance Society *v.* City of Moscow Gas Company—City of Moscow Gas Company *v.* International Finance Society, 502
Martineau *v.* Norwich Corporation, 277
Patterson *v.* The Gaslight and Coke Company, 86, 125, 159, 196
Richmond Water and Southwark and Vauxhall Water Companies *v.* Richmond Vestry, 286, 427, 464
High Court of Justice—
Common Pleas Division—
Corrie *v.* Mayo, 160
Payne *v.* Brentford Gas Company, 160
Court of Appeal from Inferior Courts—
St. Helen's Chemical Works Company, *Appellants*, *v.* St. Helen's Corporation, *Respondents*, 277
Sugg *v.* Silber, 866
Worcester Corporation, *Appellants*, *v.* Droitwich Union Assessment Committee, *Respondents*, 240
Exchequer Division—Queen *v.* South Staffordshire Water Company, 346
Queen's Bench Division—
Elland-cum-Greetland Gas Company *v.* Elland Local Board of Health, 130
Eupion Gas Company—Prosecution of the Promoters, 204, 241, 277
Northampton Water Company *v.* Easton, 577
Queen, The, on the Prosecution of the Local Government Board, *v.* Lincoln Corporation, 346
Sugg *v.* Silber, 577, 766, 821, 863, 938, 979
Tarry *v.* Ashton, 241
Hove Police Court—Conviction for Intimidation and Assault at a Gas Work, 347
Huntingdon County Court—Huntingdon Gas Company *v.* Veasey, 130
Lambeth Police Court—Breach of Contract of Service, 346
Leeds Police Court—Stealing Gas, 53
Liverpool Spring Assizes—Brierley and Others *v.* Rochdale Corporation, 502
Macclesfield Police Court—Conviction of a Stoker for Neglect of Work, 15
Richmond Petty Sessions—Vestry of Mortlake *v.* Brentford Gas Company, 427
Romford Petty Sessions—Breach of Contract of Service, 241
Supreme Court of Judicature—Court of Appeal—Chancery Division—Patterson *v.* The Gaslight and Coke Company, 502, 761
Swansea Police Court—Conviction for Breach of Contract of Service, 161
Truro Police Court—Conviction for Neglecting Work, 53
Wigan Country Court—Whitfield *v.* Begg, 466
Worcester Lent Assizes—Dudley Corporation *v.* South Staffordshire Water Company, 427
Worship Street Police Court—
Using Impure Water, 694
Vestry of St. Leonard, Shoreditch, *v.* New River Company, 656

Meetings of Companies.

Acworth, Featherstone, Purston, and Sharleston Gas Company, 391
Airedale Gas Company, 281
Alliance and Dublin Consumers Gas Company, 581
Bahia Gas Company, 776
Barnet District Gas and Water Company, 311
Barnsley Gas Company, 391
Barton Gas Company, 981
Beccles Water and Gas Company, 824
Bideford Gas Company, 907
Bilston Gas Company, 54
Birmingham and Staffordshire Gas Company, 131
Birmingham Gas Company, 391
Birmingham Water Company, 433, 647
Blackrod Gas Company, 286
Bodmin Gas Company, 236
Bombay Gas Company, 827
Brighton Gas Company, 318
Bristol United Gas Company, 349, 470
Bristol Water Company, 507
British Gas Company, 192, 494
Broadstairs Gas Company, 390
Bromsgrove Gas Company, 285
Burslem and Tunstall Gas Company, 909
Bury St. Edmund's Gas Company, 280
Cadiz Water Company, 83, 867
Cagliari Gas and Water Company, 469
Cambridge University and Town Gas Company, 207
Cambridge Water Company, 207, 832
Canterbury Gas and Water Company, 349
Chesterfield Water and Gas Company, 430
Christchurch (New Zealand) Gas Company, 696
Cleveland Water Company, 247
Commercial Gas Company, 536
Cork Consumers Gas Company, 428
Crystal Palace District Gas Company, 508
Cuckfield Gas Company, 391
Derby Gas Company, 683
Derby Water Company, 351
Dover Gas Company, 385
Drogheda Gas Company, 358
Dronfield Gas Company, 910
Eastbourne Gas Company, 433
East London Water Company, 506
European Gas Company, 131, 982
Faversham Water Company, 193
Gaslight and Coke Company, The (Chartered), 206, 532, 773
Georgetown (British Guiana) Gas Company, 826
Great Marlow Gas Company, 910
Harrow District Gas Company, 430
Howden Gas Company, 380
Imperial Continental Gas Association, 867
Imperial Gas Company, 314
Independent Gas Company, 611
Ipswich Gas Company, 312
Kibworth Gas Company, 910

King's Lynn Gas Company, 358
Kirkby Moorside Gas and Water Company, 247
Launceston Gas Company, 285
Leicester Water Company, 318
Liverpool United Gas Company, 281
London Gas Company, 540
Longton Gas Company, 391
Maidstone Water Company, 358
Mauritius Gas Company, 828
Melton Mowbray Gas Company, 285
Monte Video Gas Company, 775
Morecambe Gas Company, 281
Newark Water Company, 866
Newcastle and Gateshead Water Company, 350
Newport (Mon.) Gas Company, 279
Nictheroy (Brazil) Gas Company, 868
Normanton Gas and Water Company, 358
Norwich Water Company, 208
Odessa Water Company, 695
Ottoman Gas Company, 507
Paris Gas Company, 947
Peterborough Gas Company, 286
Phœnix Gas Company, 544
Pontefract Gas Company, 322
Preston Gas Company, 124
Reading Gas Company, 348
Redhill Gas Company, 285
Rio de Janeiro Gas Company, 583
Rochester and Chatham Water Company, 349
Rochester Gas Company, 285
Rockhampton (Queensland) Gas Company, 385, 857
Ruabon Water Company, 345
Scarborough Water Company, 313
Sheffield United Gas Company, 612
Sheffield Water Company, 611
Sheppy Consumers Gas Company, 470
Shrewsbury Water Company, 322
Singapore Gas Company, 657
South Essex Water Company, 322
South Metropolitan Gas Company, 289, 542
South Shields Gas Company, 348
South Staffordshire Water Company, 349
Southwark and Vauxhall Water Company, 192, 981
Staffordshire Potteries Water Company, 832
St. Austell Gas Company, 247
Stockton and Middlesbrough Water Company, 192
Strood Water Company, 307
Sunderland and South Shields Water Company, 318
Surrey Consumers Gas Company, 546
Sutton-in-Ashfield Gas Company, 322
Taunton Water Company, 530
Totnes Gas Company, 683
Tottenham and Edmonton Gas Company, 547
Trowbridge Water Company, 358, 547
Tynemouth Gas Company, 581
Uckfield Gas Company, 737
United General Gas Company, 385
Wakefield Gas Company, 347
Wakefield Water Company, 286
Wellington (New Zealand) Gas Company, 696
Weston-super-Mare Water Company, 807
Whitby Water Company, 247
Winchester Water and Gas Company, 344
Wolverhampton Gas Company, 348
York New Water Company, 244
York United Gas Company, 244

Miscellaneous News.

Accident at the Pudsey Gas Works, 59
Accident, Fatal, at the Huddersfield Gas Works, 660
Accident, Fatal, at the Portsea Gas Office, 648
Accident, Fatal, at the Reading Gas Works, 349
Accident, Fatal, to a Travelling Gas Fitter, 136
Accident, Fatal, to the Secretary of the New Gas Company, 59
Action of Light on Selenium, by Mr. C. W. Siemens, 356
Adjustment of Gasholders used for Measurement, On the Improvement in the, by Mr. R. Ferrier, 358
Air Compression, by Mr. J. Steel, 539
Alcester Water Supply, 587
Amalgamation of the Imperial and Independent Gas Companies with The Gaslight and Coke Company, Scheme for the, 503
American Gaslight Association (Meeting in New York)—
President's Address, 16
Naphtha Gas, Report on the Manufacture of, 16
Election of Officers, 17
Papers read—
On the Use of Petroleum and its Products in the Manufacture of Illuminating Gas, by Mr. J. D. Patton, 17, 283
Wooden Pipes for Gas Mains, by Mr. T. Littlehales, 353
Lime Purification, by Mr. C. A. Gerdenier, 354
Retort Charging Machinery, by Mr. T. F. Rowland, 387
Removal of Naphthline, by Mr. Neal, 388
Lecture—
On Illuminating Gas, by Professor Chandler, 57, 132, 164, 209
Analysis of Spent Lime from Gas Purifiers, 386
Appledore, Gas Lighting at, 192
Arson, Mons. A., on the Construction of Gasholders, 829
Artificial Alizarine, by Mons. F. Duprey, 246
Assessment of Metropolitan Gas and Water Works, 307
Assessment of the Dublin Corporation Water Mains, 701
Assessment of the Southampton Gas Works, 83, 870
Association of Municipal and Sanitary Engineers and Managers, 895
Average Meter System, The, at West Derby, 59
Average Meter System, The, in London, 92, 207, 384, 427, 468, 580, 825
Ballyvaughan Water Works, 909
Barbadoes, Gas Lighting at, 167, 389
Bath Corporation Water Supply—Local Government Board Inquiry, 701
Bath New Water Works, 870
Batley Corporation Gas Supply, 910
Beverley Corporation Gas Supply—Local Government Board Inquiry, 245, 417
Birkenhead Gas and Water Works, 868
Birmingham Corporation Gas Supply, 24, 95, 281, 908
Birmingham Corporation Water Supply, 248, 286, 697
Birmingham Water Company's Works, Transfer to the Corporation of the, 56
Birmingham Water Supply, Dr. Hill's Report on the, 234, 391, 582, 736, 910
Bolton Corporation Gas Works Extension, 167
Bolton Corporation Water Works Extension, 723
Bradford Corporation Gas Supply, 431
Bridgewater Water Supply, 380
Brighton Corporation Water Supply—Local Government Board Inquiry, 358
Brighton Corporation Water Works, 619
British Association of Gas Managers (Annual Meeting in London)—
Election of New Members, 941
Inaugural Address, by Robert Morton, Esq., 941
Establishment of a Benevolent Fund, 943
Abstract of Proceedings, 943, 945
Annual Dinner and Excursion, 946
Papers Read—
Piece Work *v.* Day Work, as Applied to the Reduction of the Labouring Force in Gas Works, by Mr. T. Travers, 983
Further Experience with Concrete Tanks, by Mr. G. Livesey, 984
The Comparative Working Results of West's Mechanical Stoker, by Mr. R. P. Spice, 989
(*Continued in next Vol.*)
Burslem Gas Works, Proposed Transfer of the, to the Local Board, 208
Bursting of a Reservoir in America, 494
Carlisle Corporation Gas and Water Works Accounts, 97
Carmarthen Sewerage Works, 23
Chapel-en-le-Frith Gas Supply—Board of Trade Inquiry, 547
Chapeltown Water Supply, 59
Chelmsford Gas Supply, 343
Christmas Appeal, A, 15, 49, 83, 124, 156, 192, 272
Chubb, Mr. H., On the Supply of Gas to the Metropolis, 613
Combustion of Coal Gas, The, and the Theory and Structure of Flames, by Mr. J. Wallace, 18
Construction of Gasholders, On the, by Mons. Arson, 829
Crookes, Professor, On the Mechanical Action of Light, 658
Darlington Corporation Gas Supply, 358, 624
Deal, The Gas Question at, 386
Death of Dr. Letheby, 494, 571
Death of Mr. Aird, 571, 625
Death of Mr. Drew, 386
Death of Mr. Jaques, 571
Death of Mr. Sotheron-Estcourt, 59
Death of Mrs. Barlow, 307
Decomposition of the Products of Sewage, 245
Development of the Chemical Arts During the Last Ten Years, Professor Hofmann's Report on the, 949, 988
Dover Public Lighting, Complaints Respecting the, 737
Droitwich Water and Sewerage Works, 619
Dronfield Water Supply, 908
Dublin, Misuse of Water in, 547
Dublin Public Lighting. Audit of the Corporation Accounts, 319
Dublin Water Mains, Assessment of the, 701
Dudley Public Lighting, 870
Dundee Gas Employés Entertainment, 248
Duprey, Mons. F., on Artificial Alizarine, 246
Eastbourne Water Works Extension, 587
Easton, Mr. E., on the Yield of Wells Sunk in the Chalk of the London Basin, 782
Economic Gas-Stove Cooking Apparatus, 242
Economic Use of Coal Gas for Lighting Purposes, by Mr. B. M. M'Crae, 164
Embezzlement by a Water Rate Collector at Brighton, 547
Entertainment of the Employés of the Partick, Hillhead, and Maryhill Gas Company, 156
Entertainment of the Employés of the Wigan Corporation Gas Works, 345
Entertainment to the Dundee Gas Employés, 248
Entertainment to the Glasgow Gas Employés, 345
Entertainment to the Workpeople at the Hope Iron Works, Stockton, 98
Epping Water Supply, 358
Estimation of the Illuminating Power and Purity of Coal Gas, by Mr. A. Vernon Harcourt, 620
Eupion Gas Case, The, 307
Evaporation and Percolation, by Mr. C. Greaves, 389
Evesham Gas Supply, 727
Exeter Gas Works, Alleged Nuisance at the, 697
Exeter Gas Works, Proposed Purchase of the, by the Corporation, 584
Explosions of Gas at—
Birmingham, 21
Boston (U.S.A.), 23, 168
Bradford, 136
Glasgow, 322, 352
Jarrow, 136
Explosions of Gas at—
Leeds, 247, 285, 392
Rochester, 136
Wolstanton, 285
Explosions of Gas on Shipboard, 587, 975
Ferrier, Mr. R., on the Improvement in the Adjustment of Gasholders used for Measurement, 358
Fire at the Bramford Tar Works, 539
Fire at the Jersey Gas Works, 895
Fire at the Sheffield Gas Works, 192
Fire Blocks of Tan, 156
Floods of 1875, The, and Water Economy, by Mr. G. J. Symons, 856
Folkestone Gas Works Extension, 23
Forfar Public Lighting, 193
Frauds on the Great Central Gas Company, The, 737
Gas Burners, by Mr. J. Pattinson, 165, 471
Gas for Heating Purposes, 23
Gas from Dead Animals and Sewage, 98
Gas from Wood and Crude Petroleum, 617
Gasholders, On the Construction of, by Mons. Arson, 829
Gasholders used for Measurement, On the Improvement in the Adjustment of, by Mr. R. Ferrier, 358
Gas Lighting in America, 385
Gas Verifier, by Mons. Giroud, 776
Glasgow Gas Works Employés Entertainment, 247, 285
Glasgow Water Supply, Dr. Mills's Report on the, 582, 727, 910
Glasgow Water Supply. Report by Mr. Gale on the Pressure in the Mains, 584
Glasgow Water Supply. Report by Mr. Gale on the Trial District Meters, and the Operations for Reducing Waste, 22
Halifax Corporation Gas Supply, 248, 908
Halifax Corporation Water Works, 547
Harcourt, Mr. A. Vernon, on the Estimation of the Illuminating Power and Purity of Coal Gas, 620
Harrogate Sewerage, 49
Health and Sewage of Towns. Conference at the Society of Arts, 547, 950
Heating by Gas, by Mr. J. Wallace, 355
Hereford Corporation Gas Accounts, 386
Hofmann's, Professor, Report on the Development of the Chemical Arts during the Last Ten Years, 949, 988
Huddersfield Corporation Gas Supply, 470
Hull Corporation Water Works, 24, 192
Hull Gas Supply, Messrs. Baines's Monthly Reports on the, 60, 234, 391, 624, 737, 951
Hydraulic Rams for Cottage Water Supply, 242
Illuminating Power and Purity of Coal Gas, Mr. A. Vernon Harcourt on the Estimation of the, 620
Illuminating Power Meter, Mr. Sugg's, 282, 618
Illuminations at Calcutta on the Visit of the Prince of Wales, 166
Important to Gas Companies Employés, 647
Institution of Civil Engineers, 98, 282, 356, 389, 391, 584
Invercargill (New Zealand) Gas Works, Opening of the, 625
Ipswich Sewerage, 59
Iquique Water Supply, 383
Keighley New Gas Works, 624
Leeds Corporation Gas Supply, 60, 701, 946
Leeds Corporation Gas Works, Engineers Report on the Manufacturing and Distributing Plant, 829
Liability for Gas Supplied to a Club, 577
Lichfield, Proposed New Gas Company at, 60
Lichfield, Proposed Purchase of the Gas Works at, 344, 701
Light Registering Apparatus, 910
Liverpool Corporation, The, and Plumbers Work, 474
Liverpool Corporation Water Supply, 55
Liverpool Gas Supply, 494, 582, 907
London Coal Trade of 1875, The, 56
Louth Water Supply, 587
Lowe's Improved Gas Apparatus, 93
Malton Gas Supply, 647
Mammoth Filter, A, 907
Manchester Corporation New Gas Works, Plans for the, 135
Manchester Corporation Water Supply, Report of the Water Works Committee for 1875, 208
Manchester District Association of Gas Engineers, 387
Maryport Town and Harbour Gas Company's Works, Transfer of the, 759
Mastic for the Joints of Gas Pipes, 135
M'Crae, Mr. B. M., on the Economic Use of Coal Gas for Lighting Purposes, 164
Measuring Light, 910
Mechanical Action of Light, Professor Crookes on the, 658
Metropolis Gas Supply—
Amalgamation of the Imperial and Independent Gas Companies with The Gaslight and Coke Company, Scheme for the, 503
Appointment of Chief Gas Examiner, 657
Average Meter System, The, 92, 207, 384, 427, 468, 580, 825
Camberwell Vestry, 91, 241, 279, 657
Camperdown, Earl, on the Chartered Gas Bill, 981
Chelsea Vestry, 91, 532
Chubb, Mr. H., on the Supply of Gas to the Metropolis, 613
Court of Common Council, 347, 531, 732, 941
Lambeth Vestry, 92, 241, 532
Livesey, Mr. G., on the Regulations Bill and the Proposed Amalgamations, 16
Lowe's, Mr., Gas Bills, 981
Metropolitan Board of Works, 53, 241, 467, 503, 531, 578, 657, 694, 731, 771, 825, 941
Mile End Vestry, 531

Metropolis Gas Supply (*continued*)—
Paddington Vestry, 279
Quarterly Reports of the Chief Gas Examiner on Public Lighting in the City, 580
the Gas Supplied by the Chartered, Imperial, and South Metropolitan Gas Companies, 91, 656
Whitmore's, Dr., Monthly Reports on the Gas Supplied to Marylebone, 91, 242, 384, 579, 772, 941
Metropolis Water Supply—
Accounts of the Metropolitan Water Companies for the Year 1874-5, 243
Beckett, Sir Edmund, on the Water Supply of London, 53
Bolton's, Major, Reports, 279, 428, 580, 825, 981
Chelsea Vestry, 773
Chelsea Water Company's Water, An Analysis of the, 468
Court of Common Council, 92, 468, 695
Deputation to the Home Secretary from the National Health Society, 505
Frankland's, Dr., Monthly Reports on Chemical Examinations of Metropolitan Waters, 130, 242, 384, 580, 773, 907
Hydrants in the City of London, 695
Medical Officers of Health, Monthly Returns of the, on the Composition and Quality of the Metropolitan Waters, 16, 162, 347, 507, 695, 907
Medical Officers of Health, Returns of the, on the Composition and Quality of the Metropolitan Waters for the Year 1875, 54
Metropolitan Board of Works, 130, 279, 309, 468
Protection from Fire in the Temple, 23
Registrar-General's Monthly Returns of the Average Quantity of Water Supplied by the London Water Companies, 92, 242, 384, 580, 772, 907
Road Watering on the Thames Embankment, 209
Street Watering in Shoreditch, 347
Surface Wells in Marylebone, 580
Whitmore's, Dr., Monthly Reports on the Water Supply of Marylebone, 92, 242, 384, 580, 773, 941
Mineral Compensation Case, 830
Municipal Corporations (Borough Funds) Act, 343
Natural Gas Furnace, 391
Newbury Gas Works, Proposed Purchase of the, by the Town Council, 383, 617
Newcastle and Gateshead Water Company, Proposed Purchase of the, by the Corporation, 351
Newcastle-upon-Tyne Gas Supply, Mr. Pattinson's Annual Report to the Town Council, 388
New Companies Registered, 60, 624, 723
New England Association of Gas Engineers (Meeting at Boston)—
Introductory Business, 697
On the Removal of Naphthaline, by Mr. Sherman, Experiments with Penn. Coal, by Mr. Lamson, 698
On Gas Manufacture, by Mr. Kidder, 698
New Pumping Machinery, 358
New River Company, Sales of Shares in the, 285, 895
New York, Price of Gas in, 416
New York, Water Supply of, 167
Normanton Sewerage—Local Government Board Inquiry, 824
Nottingham Corporation Gas Supply, 624, 727
Novel Steam Fire Engine, 869
Noxious Vapours, 391
Odling, Dr., on Paraffins and their Alcohols, 392
Ossett New Water-Works, 907
Otley Water Supply, 276
Outibridge, Gas Lighting at, 16
Paraffins and their Alcohols, by Dr. Odling, 392
Pattinson, Mr. J., on Gas Burners, 165, 471
Petroleum and Coal Tar, on the Value of, in the Manufacture of Gas, by Professor Wagner, 21
Petroleum in Public Lamps, 981
Pickering Gas Supply, 247
Pollution of the Ravensbourne, The, 167
Presentation to Mr. S. A. Beck, Governor of the Chartered Gas Company, 759
Presentation to Mr. P. A. Black, of Grahamston, 247
Presentation to Mr. J. Clark, of the Imperial Gas Company, 935
Presentation to Mr. W. Collier, of the Beckton Gas Works, 433
Presentation to Mr. J. Field, Accountant of the Imperial Gas Company, 975
Presentation to Mr. J. G. Hawkins, of Sheffield, 701
Radiation of Light, 167
Ramsgate Gas and Water Supply, 343, 571, 910
Reductions in the Price of Gas 23, 162, 247, 275, 358, 429, 474, 580, 624, 647, 870, 895
Richmond (Surrey) Water Supply, 624, 737
Ripley Sewerage and Water Supply—Local Government Board Inquiry, 617
Rochdale Corporation Gas Works, 55
Rotherham Corporation Gas Supply, 907
Rotherham Sewage, 23
Sales of Shares by Auction, 285, 380, 547, 577, 895
Scarborough Gas Works, Alleged Nuisance at the, 587
Scheme for the Amalgamation of the Imperial and Independent Gas Companies with The Gaslight and Coke Company, 503
Self Lighting Gas Burner, A, 433
Sewage Interception Systems or Dry Sewage Processes, by Mr. G. R. Redgrave, 584
Sewage, The Treatment of, by Precipitation, by Mr. W. Shelford, 585
Sheffield Gas Company and their Officials, 686
Sheffield Water Supply, Completion of New Works for the, 60, 625
Siemens, Mr. C. W., on the Action of Light on Selenium, 356
Silicate Cotton, 60
Silsden Gas Supply—Local Government Board Inquiry, 583
Skelmersdale Gas Supply—Local Government Board Inquiry, 548
Skelton's Catoptric Lamps, 910
Society of Engineers, 242, 539, 635
Southampton Gas Works, Rating of the, 83, 870
Southern District Association of Gas Engineers and Managers, 736
South Shields Gas Works, Extension of the, 870
Spent Lime from Purifiers, Analysis of, 386
Spontaneous Combustion of Coal, 135
Station Meter at the Bromley Gas Works, 661
St. Helen's (Lancashire) Gas Works, Proposed Purchase of the, by the Town Council, 59
Stockton Corporation Gas Supply, 59
Sugg's, Mr., Illuminating Power Meter, 282, 618
Sulphate of Ammonium, On the Manufacture of, from Gas Liquor, by Dr. J. Enen Loughlin, 389
Supply of Gas to the Metropolis, Mr. H. Chubb on the, 613
Thames Valley Drainage, 59, 587, 727, 870
Tin Lined Lead Piping, 206
Underground Pumping Machinery, 935
Ventilation of Drains and Sewers and the Cleansing of House Cisterns, 96
Wagner, Professor, on the Value of Petroleum and Coal Tar in the Manufacture of Gas, 21
Wakefield Water Works Company, Proposed Purchase of the, by the Town Council, 951
Wallace, Mr. J., on Heating by Gas, 355
Wallace, Mr. J., on the Combustion of Coal Gas, and the Theory and Structure of Flames, 18
Walsall Corporation Gas Supply—Proposed Extension of the Works, 55
Warrenpoint New Water Works, 866
Warrington Gas Works, Proposed Purchase of the, by the Town Council, 244
Water Power in Ireland, 737
West Bromwich Gas Supply, 908
West Derby, The Average Meter System at, 59
West of Scotland Association of Gas Managers (Meeting at Greenock)—
President's Address, 732
Election of Office Bearers, 735
Papers Read—
Simultaneous Lighting of Public Lamps, by Mr. W. Smith, 735
Deposit of Carbon and Choked Ascension Pipes, by Mr. T. Martin, 778
Manufacture of Illuminating Gas, by Mr. W. Young, 778
Wigan Corporation Gas Works, 701
Wolverhampton Corporation Water Supply, 472
Yield of Wells sunk in the Chalk of the London Basin, by Mr. E. Easton, 782

Share List of Metropolitan Gas and Water Companies, 26, 168, 359, 510, 662

Trade Reports, 22, 58, 97, 134, 166, 210, 246, 284, 321, 357, 390, 432, 473, 509, 547, 586, 623, 661, 700, 736, 783, 831, 869, 909, 950, 989

Register of Patents.

Abel, C. D—Gas Motor Engines, 24
Allen, W.—Raising and Forcing Fluids, 61
Atherton, J.—Pipe Joints, Securing Tubes, &c., 61
Atkins and Torr.—Gaseliers and Gas Brackets, 136
Bates, G.—Attaching Cocks, &c., to Pipes, 248
Blakeborough and Beck—Hydrants and Fire Cocks, 60
Bonneford, A.—Water Meters, 24
Boulton, M. P. W.—Hot Gas and Steam Engines, 25
Bowers and Fyfe—Gas Making, 25
Box, Aubertin, Boblique, and Leplay—Disinfecting Sewage, &c., 26
Broadfoot, J.—Water Closets, 62
Brotherhood, P.—Forcing Fluids, &c., 434
Buckley and Stock—Stench Traps, 61
Cannon, W. G.—Joints for Gas Pendants, &c., 61
Carey and Porter—Valves, 434
Cave, J. O'C.—Automatic Governor for Regulating the Flow of Air, Gas, Water, and Other Fluids, 25
Challender, J.—Illuminating Clocks, &c., 435
Chambers, A.—Lighting Railway Carriage Lamps, 249
Chameroy, E. A.—Cocks for Water, &c., 62
Chiverton E.—Lighting Gas Lamps, &c., 433
Clark, A. M.—
Gas Meters, 286
Pumps, 287
Clark, J. L.—Gas Regulators, &c., 26
Colebrook, C. T.—Raising Liquids, &c., 60
Cook, H. W.—Pumping and Forcing Liquids, &c., 434
Cooke, J.—Rotary Engines and Pumps, 434
Cory, E.—Motive Power Engines, Pumps, &c., 61
Crombie, E. E.—Dry Gas Meters, 62
Davey, H.—Hydraulic Pumps, 61
Deacon, G. F.—Measuring Water in Pipes, 24
Dick, A.—Air or Gas Spring and Stuffing Box, 24
Dickson, J. F.—Air or Gas Engines, 249
Dorat, H. J.—Gas Burners, &c., 26
Ekström, A. H. A.—Centrifugal Pumps, 60
Elborough, C. M.—Liquid Meters, 286
Elcock, C.—Artificial Animal Charcoal, 287
Farnsworth, S.—Valves for Water, &c., 433
Findley and Jack—Distilling Coal, &c., 434
Gill, D.—Deodorizing Sewer Gases, 61
Hallsworth and Bailes—
Purifying Gas, 435
Treating Sewage, 136
Heap, J.—Screwing and Tapping Nuts, Tubes, &c., 435
Higginson, A.—Motive Power Engines and Pumps, 25
Hill, G.—Gas Meters, 434
Hogg, J. B.—Gas Torch, 435
Hood, W. C.—Regulating the Flow of Liquids, 434
Humphries, J. R.—Preparing Joints of Soft Metal Pipes, 434
Ingram, J.—Raising and Forcing Liquids, 435
Johnson, J. C.—Forming Tube Skelps, 26
Johnson, J. H.—
Traps for Separating Liquids, 433
Treating Gases, Liquids, &c., 249
Johnson R.—Motive Power Engines and Pumps, 61
Johnson, S. H.—Cocks or Valves, 25
Jones, H. L.—Disinfectants and Deodorizers, 62
Justice, P. S.—Valves, 286
Keirby, J. E.—Packing for Pistons, 249
Kelen, L. Van der—Gas Stoves, 249
Kidd, J.—Gas Making, 24, 62
Lake, W. R.—Regulating the Flow of Gas, &c., 249
Lambert, C.—Rain Water Filters, 61
Lawrence and Porter—Centrifugal Pumps, 286
Lee, J. W.—Rotary Pumps, 62
Lyall, J.—Tube Expanders, 435
Mann and Owens—Valves, 434
Mather, J.—Air Gas Making, 26
Mills and Haley—Gas Engines, 61
Morgan and Moelchaerek—Filtering Water, 248
Morgan-Brown, W.—Evaporating Fluids, 434
Neuhaus, M—Gas Making, 249
Newton, H. E.—Gas Burners, 25
Nicholas, J.—Carbonizing Coal-Shale, &c., 435
Outerson, J. and A.—Filters, 136
Peacock and Rudkin—Cooking, &c., by Gas, 136
Pope, R. P.—Trapping Water Closets, &c., 62
Porter, G.—Gas Burners, 62
Potts and Darnell—Ventilating Water Closets, Drains, &c., 61
Quick and Restler—Liquid Meters—249
Radford, R. H.—Fluid Motors, &c., 435
Rawlins, H.—Filters, 434
Ross, O. C. D.—Utilizing Petroleum as Fuel, 26
Rowland, E.—Compressing Air, Raising and Forcing Fluids, &c., 25
Rowley, S. H.—Water Closets, 248
Rydill, G.—Purifying Sewage, &c., 25, 61
Scott, H. Y. D.—
Manures, 61
Purifying Gas, 25
Schrebler, G.—Pump Pistons, 62
Sellars, J. C.—Cement, 25
Speir and Mather—Gas Making, 248
Storer, J.—Water Closets, 249
Stringfellow, H. W.—Drain Pipes, 24
Stuart, C.—Stop Valves and Taps, 62
Swann, J.—Gas Burners, 435
Taunton, Hayward, and Knapp—Wrought Iron Tubes, 26
Taylor, F. B.—Steam Engine and Fluid Motor, 434
Taylor, G. N.—Lamps, 26
Taylor, R.—Tapping Screw Threads, 61
Tomey, J.—Water Gauge Glasses, 434
Vera, P.—Gas or Hot Air Engines, 25
Walker, W. T.—Centre Valves, 434
Waller, G.—Gas Making, 25
Weare and Isherwood—Carbonaceous Material for Filtering, 61
Weatherden, B. F.—Disinfectants, 25
Wier, M. A.—
Igniting Gas, 286
Measuring the Flow of Liquids, 62
Williamson, W. B.—Preventing Pollution of Rivers, 248
Wirth, F.—
Stop Valves, 249
Valves, 62
Wise, W. L—Washing Gas, &c., 433

Air Gas Making—Mather, J., 26
Animal Charcoal—Elcock, C., 287
Attaching Cocks, &c., to Pipes—Bates, G, 248
Cement—Sellars, J. C., 25
Centre Valves—Walker, W. T., 434
Chandeliers—
Atkins and Torr, 136
Cannon, W. G., 61
Cocks, Taps, and Faucets—
Blakeborough and Beck, 60
Chameroy, E. A., 62
Johnson, S. H., 25
Stuart, C., 62
Deodorizing and Disinfecting—
Gill, D., 61
Jones, H. L., 62
Weatherden, B. F., 25
Evaporating Fluid—Morgan Brown, W., 434
Filters, Filtering, Clarifying—
Lambert, C., 61
Morgan and Moelchaerek, 248
Outerson, J. and A., 136
Rawlins, H., 434
Weare and Isherwood, 61
Fluid Meters. *See* Meters
Gas Burners—
Dorat, H. J., 26
Newton, H. E., 25
Porter, G., 62
Swann, J., 435
Gaseliers. *See* Chandeliers

Gas Engines—
Abel, C. D., 24
Boulton, M. P. W., 25
Dickson, J. F., 249
Mills and Haley, 61
Vera, P., 25
Gas Making—
Bowers and Fyfe, 25
Findley and Jack, 434
Kidd, J., 24, 62
Neuhaus, M., 249
Nicholas, J., 435
Spier and Mather, 248
Waller, G., 25
Gas Meters. *See* Meters
Gas Spring and Stuffing Box—Dick, A., 24
Gas Torch—Hogg, J. B., 435
Hydrants and Fire Cocks—Blakeborough and Beck, 60
Illuminating Clock, &c.—Challender, J., 435
Lamps—Taylor, G. N., 26
Lighting Gas Lamps—
Chiverton, E., 433
Hogg, J. B., 435
Wier, M. A., 286
Lighting Railway Carriage Lamps—Chambers, A., 249
Meters (Gas)—
Clark, A. M., 286
Crombie, E. E., 62
Hill, G., 434
Meters (Water)—
Bonneford, A., 24
Deacon, G. F., 24
Elborough, C. M., 286
Quick and Restler, 249
Wier, M. A., 62
Packing for Joints—Keirby, J. E., 249
Pipe Joints—
Atherton, J., 61
Humphries, J. R., 434
Preventing Pollution of Rivers—Williamson, W. B., 248
Pumps—
Allen, W., 61
Brotherhood, P., 434
Clark, A. M., 287
Colebrook, C. T., 60
Cook, H. W., 434
Cooke, J. 434
Davey, H., 61
Ekström, A. H. A., 60
Higginson, A., 25
Johnson, R., 61
Lawrence and Porter, 286
Lee, J. W., 62
Rowland, E., 25
Schrebler, G., 62
Taylor, F. B., 434
Purifying Gas—
Hallsworth and Bailes, 435
Scott, H. Y. D., 25
Wise, H. L., 433
Raising and Forcing Fluids—
Allen, W., 61
Brotherhood, P., 434
Colebrook, C. T., 60
Cook, W. H., 434
Ingram, J., 435
Rowland, E., 25
Regulating the Flow of Fluids—
Cave, J. O'C., 25
Clark, J. L., 26
Hood, W. C., 434
Lake, W. R, 249
Screwing and Tapping Tubes, &c.—
Heap, J., 435
Taylor, R., 61
Sewage, Purifying and Treating—
Box, Aubertin, Boblique, and Leplay, 26
Hallsworth and Bailes, 136
Rydill, G., 25, 61
Scott, H. Y. D., 61
Stoves for Gas—
Kelen, L. Van der, 249
Peacock and Rudkin, 136
Taps. *See* Cocks.
Traps for Drains, &c.—
Buckley and Stock, 61
Pope, R. P., 62
Tube Expander—Lyall, J., 435
Tube Skelps—Johnson, J. C., 26
Utilizing Petroleum as Fuel—Ross, O. C. D, 26
Valves—
Carey and Porter, 434
Farnsworth, S., 433
Johnson, S. H., 25
Justice, P. S., 286
Mann and Owens, 434
Stuart, C., 62
Walker, W. T., 434
Wirth, F., 62, 249
Ventilating Drains—Potts and Darnell, 61
Water Closets—
Broadfoot, J., 62
Rowley, S. H., 248
Storer, J., 249
Water Gauge Glasses—Tomey, J., 434
Water Meters. *See* Meters.

Patent Notices, 26, 62, 98, 168, 211, 249, 287, 322, 359, 392, 435, 474, 510, 625, 662, 784, 910, 951